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N. I. SHUYKIN'S WORK ON HYDROCARBONS AND CATALYTIC REACTIONS

N. I. Shuykin was elected Corresponding Member of the Academy of Sciences USSR, in the speciality of organic chemistry, at a meeting of the Department of Chemical Sciences of the Academy held on 19-20 October 1953.

N. I. Shuykin is a pupil of N. D. Zelinskiy who works in the field of catalytic transformations of hydrocarbons and other organic compounds. In addition to original theoretic investigations in the field of the catalytic dehydrogenation of hydrocarbons, Shuykin carried out a number of major investigations on the production of individual aromatic hydrocarbons from petroleum. The last-mentioned investigations are of great economic importance. To the same field belongs Shuykin's extensive work on problems bearing on the improvement of the quality of motor fuels by means of catalytic reactions. He developed methods for the production of high-quality aviation fuel from ordinary straight-run gasolines, and of automobile fuel of standard quality from low-grade sulfur-containing gasolines.

Another important line of research pursued by Shuykin is his investigation of the catalytic hydrogenation of compounds of the furane series. This research led to a new method for the synthesis of gamma-oxides (tetrahydrofuranes), involving the use of palladium and nickel catalysts.

A third major line of Shuykin's research dealt with the catalytic dehydration of organic compounds, specifically of alcohols and of their mixtures with amines and ammonia. In the course of this work, methods for the catalytic synthesis of monoalkylsubstituted anilines were developed.

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